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KIN 499.01: Capstone Senior Project and Research

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The University of Montana

Department of Health and Human Performance
KIN 499 – Capstone Senior Project and Research

Instructors: Steven Gaskill, Ph.D. Matt Bundle, Ph.D.
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Gaskill Office hours: M-10-11am, T&R 9-11am, and Wed 1-2pm, or by appointment.
Bundle Office hours: Tues and Thurs 12.30 to 2.00pm

Course Description

Theory and practical experience in research design, data collection, results analysis and report writing. Students will generally assist with ongoing research as well as attend formal classroom presentations and discussions. Students with a well-developed research idea may be allowed to undertake independent research in addition to the formal classroom sessions.

Prereq: HHP Senior Standing
Requirement: NIH Office of Extramural Research course completion
Semester: Autumn 2013
Credits: 3 credit hours
Time: Tuesday and Thursday 8:10-9:00 AM and other early mornings
Texts: Class handouts

Objectives

1. To understand the entire spectrum of the research process, from idea to publication.
2. To read and interpret scientific writing.
3. To acquire laboratory skills commonplace to exercise science and specific to the project you are working on.
4. To get first-hand experience dealing with human research participants.
5. To understand basic statistical procedures and how they relate to each research project.
6. To further competencies in Microsoft Excel doing data analysis, figures, and tables.
7. To communicate research findings both written and orally.

Rationale

This course is designed to be a senior capstone course. For this reason, you are expected to do much of your learning on your own and explore research ideas and concepts beyond those discussed in class. Many of the laboratory techniques referred to in class will be those you have already been exposed to in previous laboratory classes. The ultimate goal of this course is to acquire an understanding of the entire research process and experience each portion of the process first-hand.

Course Evaluation

Attendance	100	(10%) (10 points off for each missed class)
Literature Report (indiv)	100	(10%) Grade from your project manager
Data Table and Figures ²	100	(10%) Grade from your project manager
Abstract ²	100	(10%) Grade from your project manager
Class Presentation ²	100	(10%) Grade from your project manager
Data Collection Efforts ²	250	(25%) Grade from your project manager
Other ¹ (See below)	100	(10%)
<u>Scientific Presentation²</u>	<u>150</u>	(15%) (UMCUR or NW-ACSM in spring)
	1000	(100%)

¹ Other: You can accumulate points up to 180 points (note up to 80 bonus points) by:

Being a research subject: 20 points/hour
Being a subject during pilot testing: 20 points/hour
Helping FEZ and TIM with projects: 20 points/hour
Helping other faculty with projects: 20 points/hour

² These grades will be assigned to your working group or 3-4 students who will be your team.

Grading Scale

		A	93-100%	A-	90-92%
B+	88-89%	B	83-87%	B-	80-82%
C+	78-79%	C	73-77%	C-	70-72%
D+	68-69%	D	63-67%	D-	60-62%
F	<60%				

Note: Grades will not be given until after the spring scientific presentations are completed. To receive funding support for NW-ACSM or UMCUR students in this class will need to help with the HHP Freezer Burn, Sunday Feb 2 or help prior to the race.

Instructor Expectations

1. Work hard
2. Be honest
3. Be professional
 - a. Dress professionally whenever doing testing with research participants. This means jeans and a nice shirt, or khakis/other nice pants and a nice shirt. NO HOODIES, SHORTS, OPEN TOED SHOES, OR SLOPPY DRESS.
4. Problem solve on your own and with the group
5. Be prompt
6. Hand in assignments on time; if late 50% off
7. Have fun, because research is pretty cool

University required statement:

"All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University.

All Students need to be familiar with the Student Conduct Code. The Code is available for review online at <http://www.umt.edu/SA/VP/SA/index.cfm/page/1321>."